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May 1964

PHOTOGRAPHIC INTERPRETATION REPORT

POSSIBLE AMM-ASSOCIATED FACILITY
SAM SITE E15-1
MOSCOW, USSR

Declass Review, NIMA/DoD

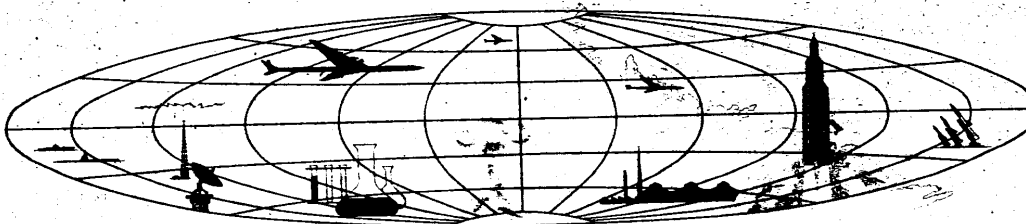


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POSSIBLE AMM-ASSOCIATED FACILITY
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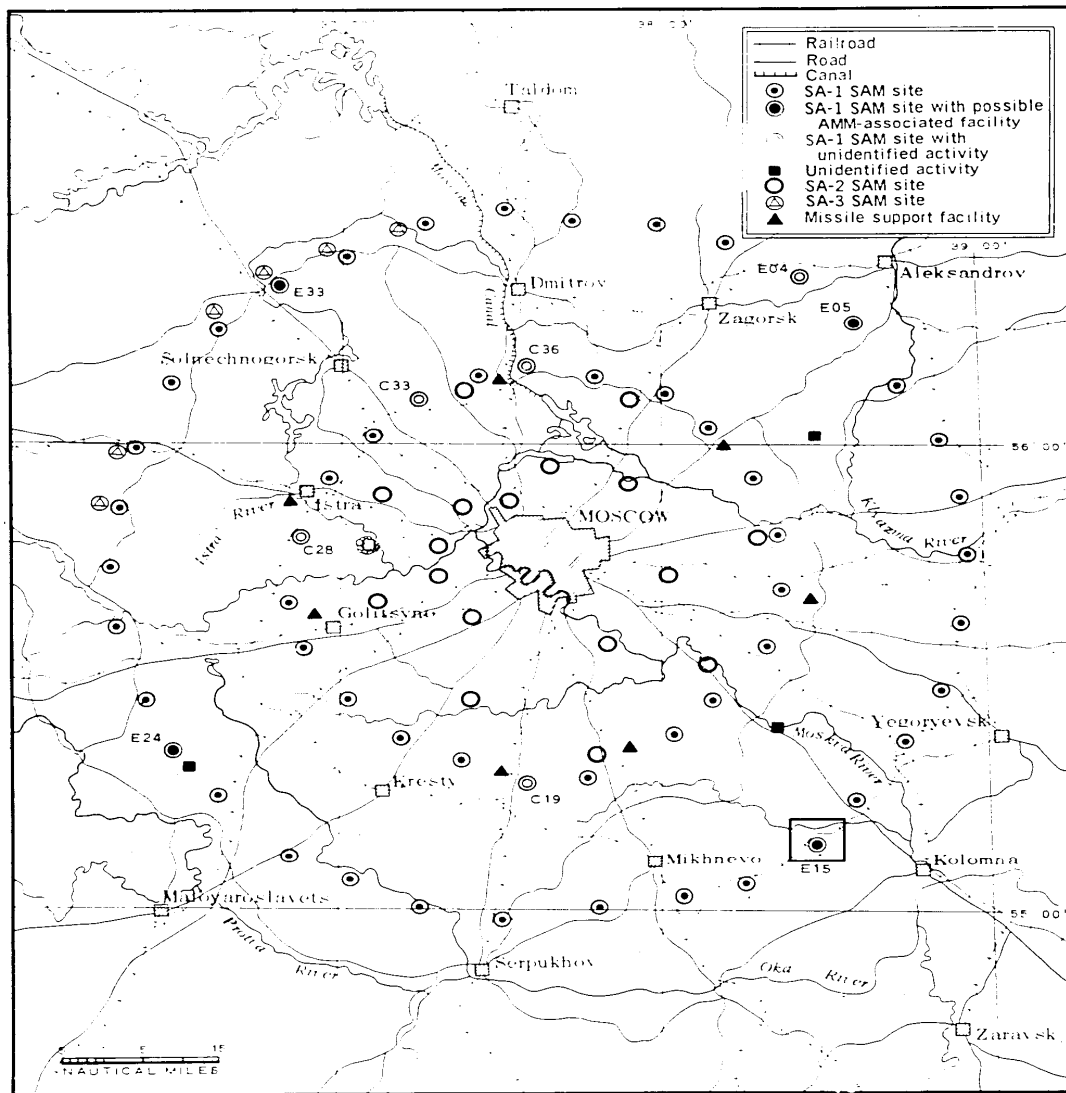


FIGURE 1. LOCATION OF POSSIBLE AMM-ASSOCIATED FACILITY.

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SUMMARY

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Analysis [REDACTED] reveals that construction of the possible AMM-associated facility at Moscow SAM Site E15-1 had not progressed as far as previously reported. 1-3

It has now been ascertained that the three major buildings referred to as the "triad" are in early-to-mid stages of construction. The exact function of the facility is still undetermined.

INTRODUCTION

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25X1D

SAM Site E15-1 is located at 55-09-50N 38-22-15E (Figure 1). The SA-1 site appeared complete on KEYHOLE photography of [REDACTED] but new construction was apparent on [REDACTED] photography. Four additional buildings had been added to the support area by [REDACTED] and two more were constructed between [REDACTED] photography, an access road parallel to the SA-1 launch area was under construction to the southeast corner of the launch area, and in [REDACTED]

[REDACTED] preliminary site preparation for the triad was underway in that corner. By [REDACTED] the site preparation had assumed a triangular pattern, and two weeks later the exterior walls of the three major triad buildings were under construction. Since then, construction on the buildings has continued (Figures 2-4). The following description of the major components of the SAM site is based on photography of [REDACTED]

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25X1D

TRIAD

The largest building of the triad measures [REDACTED] high (Figure 4, item 1). The visible sides of the exterior walls appear complete with no window or door openings (Figure 5).

the platform and extends almost the entire width of the building with cross beams visible through the opening in the roof. The smaller opening is at the southwest corner of the building, parallel to the west wall.

25X1D

25X1D

The roof of the building, which has probable parapets on all sides, is still under construction. On the south center of the roof is an elevated platform that appears enclosed on all sides and that measures [REDACTED] square by approximately [REDACTED] high. The shaft of the platform appears to extend through the roof of the building and to have openings on the north and south sides. On top of the platform there are two unidentified, dark, indistinct objects. There are two other openings in the roof: the larger one is north of

A tower crane is adjacent to the northeast corner of the building, and unidentified material is scattered around the sides of the building. Adjacent and parallel to the south end of the building, the structure previously reported as similar to those seen at triads at Sary-Shagan Antimissile Test Center (SSATC) 3 is under construction (Figure 4, item 2). The probable footings for the structure were first observed in [REDACTED]

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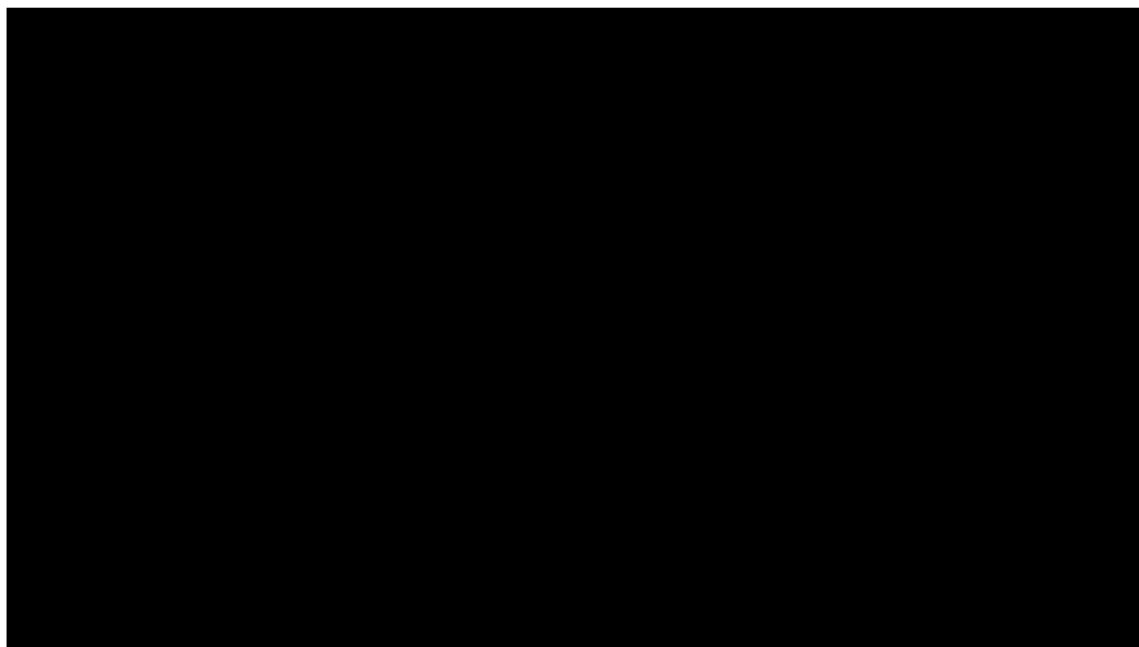
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25X1D

Two smaller buildings, located north of the large building on the side toward Moscow, complete the triad. The northeast building (Figure 4, item 3), which is on the east side of an SA-1 control bunker, is [REDACTED] and approximately [REDACTED] feet high. The visible exterior walls on the second level of the building do not appear complete. The roof of the building is flat and possibly has a low parapet on four sides. Approximately 90 percent of the roof has been constructed. At the approximate center of the building is a vertical shaft that is probably still under construction. Although this shaft is smaller than the elevated platform on the large rectangular building, it is probably intended to serve the same function. The square-shaped shaft appears slightly elevated above the roof of the second level and extends down through [REDACTED]

it. Openings in the roof were noted on the east and west sides of the shaft.

Construction on the northwest building (item 4), which measures [REDACTED] feet by approximately [REDACTED] feet high, has not progressed as far as the northeast building. The first level appears complete, but construction on the exterior walls and roof of the second level has not been completed. A square vertical shaft similar to the one at the northeast building extends down through the ceiling of the first level. The roof of the second level is being constructed around the vertical shaft with openings on the two sides of the shaft where roofing has been laid. The top of the vertical shaft appears even with the roof of the second level. Two parallel dark lines extend a short distance out from the vertical shaft toward the west



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wall of the building. Similar parallel dark lines may be present on the opposite side of the shaft, but shadows from the partially completed roof of the second level preclude firm identification. A tower crane is adjacent to the building on the south side, and unidentified material is observed on the north side of the building.

South of the launch area and east of the large rectangular building there are nine other structures. Item numbers in the following list are keyed to Figure 4, and all but the ones with an asterisk are portrayed in Figure 5.

- 25X1D 5. Building [redacted] probably gable roof.
- 25X1D 6. Building [redacted] by approximately [redacted] feet high, flat roof
- 25X1D

- 7. Probable building under construction, one wall visible, dimensions undetermined 25X1D
- 8. Building [redacted] by approximately [redacted] feet high, low-pitched gable roof 25X1D
- 9. Building [redacted] low-pitched gable roof 25X1D
- *10. Unidentified structure [redacted] by approximately [redacted] feet high 25X1D
- 11. Building under construction, [redacted] feet by approximately [redacted] feet high, low-pitched gable roof. A tower crane is adjacent to the west side of the building 25X1D
- *12. Unidentified structure 25X1D
- 13. Lattice tower approximately [redacted] feet high.

LAUNCH AREA

25X1D On photography of [redacted] a probable drive-through structure [redacted] feet by approximately [redacted] high was identified at one of the SA-1 launch positions (Figure 4, item 14). Similar structures were identified at SAM Sites E14-1 and E16-1. Reanalysis of earlier coverage revealed that the structure at E15-1 was present on photography of [redacted]. The function of the structure has not been determined, but possibly it provides temporary environmental shelter.

25X1D On the good quality stereo photography of [redacted] patterns in the snow give some indication of the degree of activity at the site (Figure 6). The site service road was cleared of snow from the ring road to the support area. The branch road to the guidance area appears to have a light snow cover with no tracks visible. South of the support area, light track activity is visible leading into and around the possible AMM-associated facility. Roads within the launch area appear to have a light covering of snow, possibly from drifting, with no track

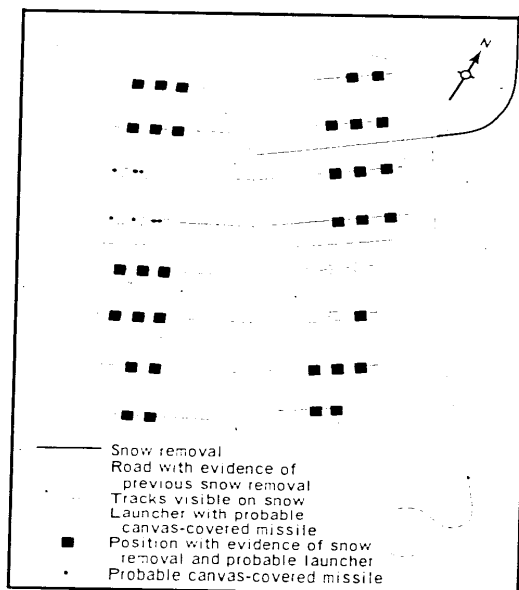


FIGURE 6. LAUNCH AREA ACTIVITY, [redacted]

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activity visible; but walls of snow along the edges of launch area roads and at the launch positions give evidence of previous snow removal.

Although the SA-1 launchers appear to be in the launch positions, snow cover precludes confirming this. Not all the positions have missiles emplaced or appear active. Figure 6 shows the degree of activity at the launch positions. At least seven canvas-covered missiles

25X1D

were observed on the launch roads: one

25X1D

25X1D

Excluding the ones measuring [redacted] feet, the average length for the other five missiles is [redacted]. Canvas covers and the lack of consistency in measurements preclude determining the missile type.

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GUIDANCE AREA

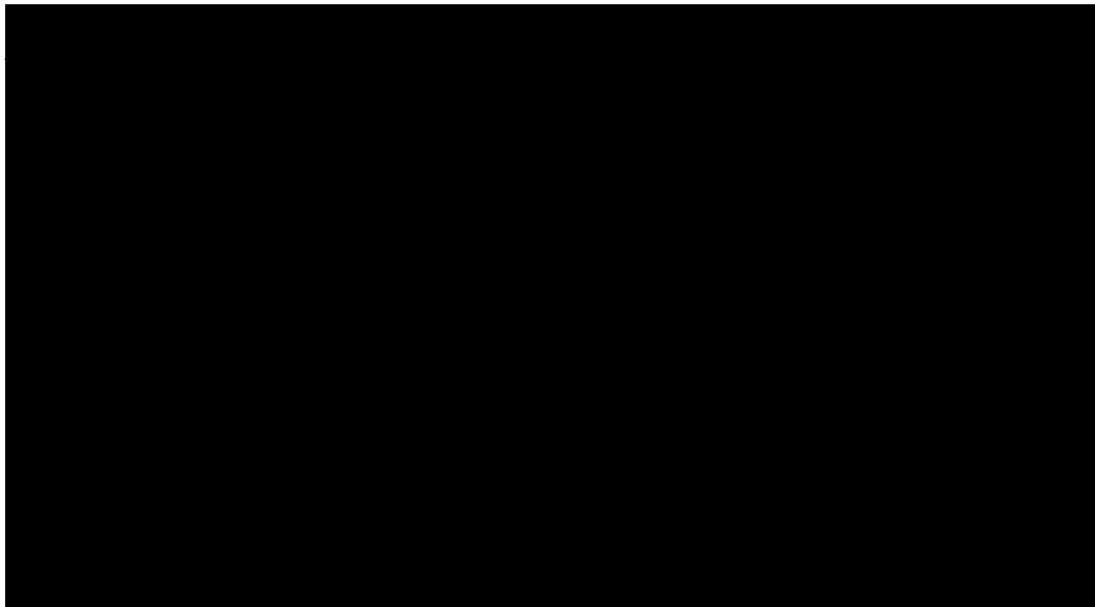
25X1D

The Yo-Yo radar appears at its normal location. A light covering of snow blankets the roads within the secured area. [redacted] Dimensions for structures within the fenced area are listed below, with item numbers keyed to Figure 7.

25X1D

1. Support building [redacted] by approximately [redacted] high, gable roof
2. Probable drive-through building adjacent to and probably connected with the Yo-Yo radar bunker, [redacted] feet high, flat roof

25X1D



25X1D

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A vertical film strip with 16 frames, showing a dark, textured surface. The frames are arranged in a column, with each frame containing a dark, rectangular shape. The background is black, and the film strip is white. The frames are numbered 1 through 16, with the numbers appearing on the left side of the strip. The film strip is oriented vertically, and the frames are arranged in a column. The dark, rectangular shapes in the frames appear to be reflections or shadows on a surface. The overall image is a high-contrast, black and white photograph of a film strip.

[illegible]

- | | | |
|-----|---|-------|
| | | 25X1D |
| 7. | Possible generator building [REDACTED]
by approximately [REDACTED] high, flat roof | 25X1D |
| 8. | Unidentified structure [REDACTED] by ap-
proximately [REDACTED] high | 25X1D |
| 9. | Guard shack [REDACTED] high,
gable roof | 25X1D |
| 10. | Boresight pole. | |

[illegible]

There are 139 buildings in the support area, including 3 administration-type buildings, 43 dwelling units, 63 support buildings and 30 miscellaneous structures. Buildings have gable roofs unless otherwise stated in the following detailed list (item numbers are keyed to Figure S).

- AREA
- 25X1D
- 25X1D
9. Bilevel support building [redacted] feet;
first level [redacted] high, second level
[redacted] high 25X1D
10. Building [redacted] feet high, 25X1D
probably flat roof 25X1D
- 11-15. Apartment-type buildings [redacted] by
approximately [redacted] feet high, flat roofs 25X1D
16. Support building [redacted] feet 25X1D
high, probably gable roof
17. Support building [redacted] feet high 25X1D
18. Support building [redacted] foot 25X1D
center section is [redacted] high, the re-
mainder is [redacted] high 25X1D
19. Support building [redacted] probably 25X1D
gable roof 25X1D
20. Support building [redacted] feet 25X1D
21. Barracks-type building [redacted] 25X1D
feet high 25X1D
22. Unidentified structure [redacted] feet 25X1D
23. Building under construction [redacted]
feet, 2 walls visible 25X1D
24. Excavation containing one POL tank
approximately [redacted] in diameter and 25X1D
the possible foundation for a second tank
25. Towerlike structure approximately [redacted] 25X1D
feet in diameter
26. Possible batch plant [redacted] feet 25X1D
27. Support building [redacted] feet 25X1D
high with an extension [redacted] by approx-
imately [redacted]
28. Probable shed [redacted] flat roof

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29. Support building [REDACTED] high, annex on west side is [REDACTED] feet, both sections have gable roofs
30. Shed [REDACTED] high, flat roof
31. Unidentified building [REDACTED] high, stack at northwest corner
32. Support building [REDACTED] feet
33. Support building [REDACTED] feet high
34. Support building [REDACTED] feet high
35. Support building [REDACTED] feet high
36. Unidentified structure [REDACTED] feet high
37. Support building [REDACTED] feet high
38. Support building [REDACTED] feet high
39. Unidentified structure [REDACTED] high
- 40-45. Barracks-type buildings [REDACTED] feet high
46. Barracks-type building [REDACTED] feet high
47. Support building [REDACTED] feet high, probably gable roof
48. Support building [REDACTED] feet high, probably gable roof
49. Vehicle shed [REDACTED] feet high
50. Vehicle shed [REDACTED] feet, first level [REDACTED] feet high, second level [REDACTED] feet high
51. Support building [REDACTED] feet high
52. Support building [REDACTED] feet
53. Support building [REDACTED] feet high
54. Unidentified structure [REDACTED] feet
55. Unidentified structure [REDACTED] feet
56. Support building [REDACTED] feet
57. Support building [REDACTED] feet
58. Unidentified structure [REDACTED] feet high
59. Probable semiburied structure [REDACTED] feet
60. Probable semiburied structure [REDACTED] feet
61. Probable semiburied structure [REDACTED]
[REDACTED]
62. Support building [REDACTED] feet high,

- | | | |
|--------|---|----------------|
| | probably gable roof | 25X1D |
| 63. | Support building [redacted] feet | 25X1D |
| 64. | Support building [redacted] feet high,
probably gable roof | 25X1D
25X1D |
| 65. | Building [redacted] feet high | 25X1D |
| 66. | Support building [redacted] feet high | 25X1D |
| 67. | Support building [redacted] feet | 25X1D |
| 68. | Support building [redacted] feet | 25X1D |
| 69. | Support building [redacted] feet high,
probably flat roof | 25X1D
25X1D |
| 70. | Probable storage tank [redacted] in
diameter, approximately [redacted] high | 25X1D
25X1D |
| 71. | Support building [redacted] feet
high, probably gable roof | 25X1D
25X1D |
| 72. | Barracks [redacted] feet | 25X1D |
| 73. | Barracks [redacted] feet | 25X1D |
| 74. | Support building [redacted] feet | 25X1D |
| 75. | Open storage area with unidentified
material | 25X1D |
| 76. | Support building [redacted] feet high | 25X1D |
| 77. | Support building [redacted] feet high | 25X1D |
| 78. | Support building [redacted] feet high | 25X1D |
| 79. | Support building [redacted] feet high | 25X1D |
| 80. | L-shaped building [redacted] feet
high | 25X1D |
| 81. | Unidentified structure [redacted] feet | 25X1D |
| 82. | Support building [redacted] feet high,
probably gable roof | |
| 83. | Support building [redacted] feet high | |
| 84. | Multifamily-type dwelling [redacted] feet | |
| 85-90. | Single-family-type dwellings [redacted]
feet | |
| 91. | Multifamily-type dwelling [redacted] feet | |
| 92. | Support building [redacted] feet high | |
| 93. | Unidentified building [redacted]
feet high | |
| 94. | Support building [redacted] feet | |
| 95. | Support building [redacted] feet high | |
| 96. | Semiburied structure [redacted] feet;
3 circular objects on south edge of roof | |
| 97. | Support building [redacted] feet
high, probably gable roof | |

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- 98. Probable bunker [redacted] feet
- 99. Probable administration building 190 by [redacted] feet high
- 100. Barracks [redacted] feet
- 101. Barracks [redacted] feet high
- 102. Barracks [redacted] feet high
- 103. Probable administration building [redacted] feet high
- 104. Probable administration building [redacted]
- 105. Probable guard post [redacted] feet high
- 106. Single-family-type dwelling [redacted] feet
- 107. Multifamily-type dwelling [redacted]
- 108. Single-family-type dwelling [redacted] feet
- 109. Multifamily-type dwelling [redacted] feet high
- 110-115. Probable outbuildings
- 116. Single-family-type dwelling [redacted] feet

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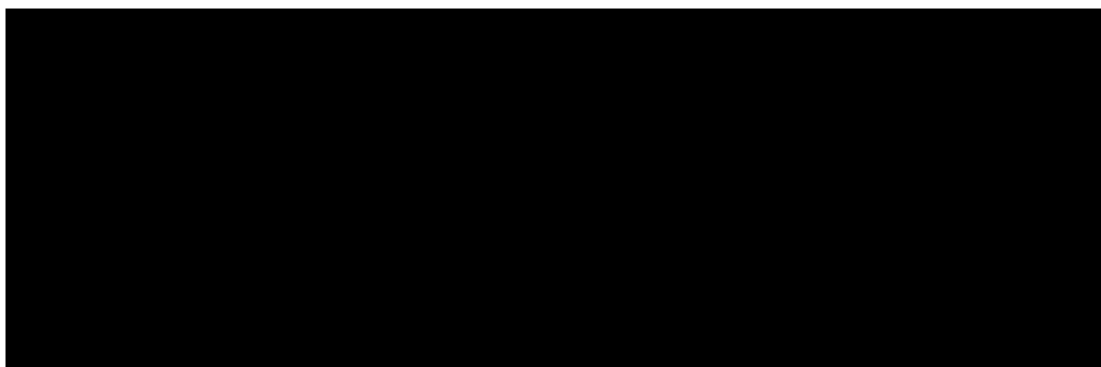
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- 117. Multifamily-type dwelling [redacted]
- 118. Multifamily-type dwelling [redacted]
- 119. Single-family-type dwelling [redacted] feet
- 120. Multifamily-type dwelling [redacted] feet high
- 121-126. Single-family-type dwellings [redacted] feet, with associated outbuildings
- 127. Multifamily-type dwelling [redacted] high
- 128. Standpipe [redacted] in diameter, approximately [redacted] high
- 129, 130. Probable outbuildings
- 131-134. Unidentified structures [redacted] feet high, probably flat roofs
- 135-138. Storage buildings [redacted] high
- 139. Storage building [redacted] high
- 140. Storage building [redacted] high

25X1D

REFERENCES



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REFERENCES (Continued)

MAPS OR CHARTS

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3. NPIC, R-219 '64, *Possible AMM-Associated Facilities, Moscow Area, USSR, September 1963-February 1964*, Apr 64 (TOP SECRET CHESS RUFF)

REQUIREMENT

CIA, C-RR4-81.203

NPIC PROJECT

N-384 '64

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